

AN 117:181734 HCA Full-text
 TI Electrostatographic liquid developer
 IN Kato, Eiichi; Hattori, Hideyuki
 PA Fuji Shashin Film K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 29 pp.
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 DT Patent
 LA Japanese
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PI	JP 04046353	A2	19920217	JP 1990-153858	19900614
	JP 2640164	B2	19970813		
PRAI	JP 1990-153858		19900614		

AB In the title electrostatog. liquid developer obtained by dispersing resin particles in a nonaq. solvent of elec. resistivity $\geq 10^9 \Omega \cdot \text{cm}$ and dielec. constant ≥ 3.5 , the resin particles are obtained by polymerizing, in the presence of a claimed dispersion stabilizing resin(s), a solution containing a monofunctional monomer and a monofunctional macromonomer (number average mol. weight $\leq 1 + 10^4$) containing the structure-repeating unit $[\text{CHe1Ce2}(\text{T1-G2})]$ [$\text{T1} = \text{CO}_2, \text{OCO}, (\text{CH}_2)_1\text{CO}_2, (\text{CH}_2)_1\text{OCO}, \text{O}, \text{SO}_2, \text{CONHCO}_2, \text{CONHCONH}, \text{COND1}, \text{SO}_2\text{ND1}, \text{phenylene}, (\text{D1} = \text{H}, \text{C1-22 hydrocarbyl}); 1 = 1-3; \text{G0} = \text{C1-22 hydrocarbon}; \text{e1}, \text{e2} = \text{H}, \text{halo}, \text{CN}, \text{hydrocarbyl}, \text{CO}_2\text{D3} (\text{D3} = \text{H}, \text{hydrocarbyl})]$ and terminated at 1 end only by a polymerizable double bond-containing structural unit. The above dispersion stabilizing resin is a nonaq. solvent-soluble A-B-type block copolymer (weight average mol. weight $1 + 10^4-5 + 10^5$) comprising block A containing $[\text{CHa1Ca2}(\text{V0-R0})]$ [$\text{V0} = \text{CO}_2, \text{OCO}, (\text{CH}_2)_y\text{CO}_2, (\text{CH}_2)_y\text{OCO}, \text{O} (y = 1-3); \text{R0} = \text{C}\geq 10 \text{ aliphatic}; \text{a1}, \text{a2} = \text{H}, \text{halo}, \text{CN}, \text{hydrocarbon}, \text{CO}_2\text{Z1}, \text{hydrocarbon interposed CO}_2\text{Z1} (\text{Z1} = \text{H}, \text{hydrocarbon})]$ and block B based on ≥ 1 types of polar group-containing polymer component(s) and(or) monofunctional monomer(s). The liquid developer has good redispersibility, shelf life, stability, and fixability.

IC ICM G03G009-13

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)

Section cross-reference(s): 35

ST electrostatog liq developer acrylic resin

IT Acrylic polymers, uses

RL: USES (Uses)

(electrostatog. liquid developer containing latex from)

IT Electrophotographic developers

(liquid, acrylic resin particles containing)

IT Electrography

(developers, liquid, acrylic resin particles containing)

IT	139357-86-1	139357-87-2	139357-88-3	139357-89-4	139357-91-8
	139357-92-9	139406-18-1	143646-39-3	143646-40-6	143646-41-7

143646-42-8 143672-55-3 143672-56-4 143729-51-5
 RL: USES (Uses)
 (dispersion stabilizing resin, binder resin preparation using)

IT 138114-04-2 139720-79-9
 RL: USES (Uses)
 (latex containing, electrophotog. liquid developer from)

IT 118730-13-5 125192-67-8 134266-83-4 137560-47-5 138113-96-9
 138113-97-0 138114-01-9 138114-02-0 138114-06-4 138114-14-4
 139703-17-6 139703-18-7 139720-68-6 139720-69-7 139720-82-4
 140708-18-5 141657-05-8 141657-07-0 141657-12-7 141680-01-5
 143646-30-4 143646-37-1 143646-38-2
 RL: USES (Uses)
 (latex containing, electrostatog. liquid developer from)

IT 126639-06-3P 139357-82-7DP, hydrolysis product 139357-84-9DP,
 photolysis product 139357-85-0P 143646-29-1DP, hydrolysis
 product
 RL: PREP (Preparation)
 (preparation of, as dispersion stabilizing resins)

IT 112955-45-0P 112955-56-3P 114512-15-1P 137646-74-3DP,
 acrylamide
 139104-82-8P 139104-83-9P 139104-86-2P 139104-87-3P 139104-
 88-4P
 139104-90-8P 139104-94-2P 139104-96-4P 139105-01-4P 139105-
 03-6P
 139105-07-0P 139105-08-1P 139105-10-5P 139105-12-7P 141348-
 56-3P
 141348-77-8P 141349-31-7P 141414-83-7P 141414-84-8P 141414-
 91-7P
 141414-98-4P 141414-99-5P 141415-00-1P 141415-02-3P 141415-
 03-4P
 141415-11-4P 141415-33-0P 141415-51-2P 141415-52-3P 141415-
 58-9P
 141415-66-9P 141415-72-7P 141417-28-9P 141440-64-4P 141440-
 78-0P
 141668-98-6P 141759-32-2P 141759-37-7P 141759-58-2P 141759-
 69-5P
 141759-91-3P 143709-80-2P 143709-83-5P 143709-84-6P
 RL: PREP (Preparation)
 (preparation of, as macromonomer)

IT 143709-75-5P
 RL: PREP (Preparation)
 (preparation of, macromonomer from)